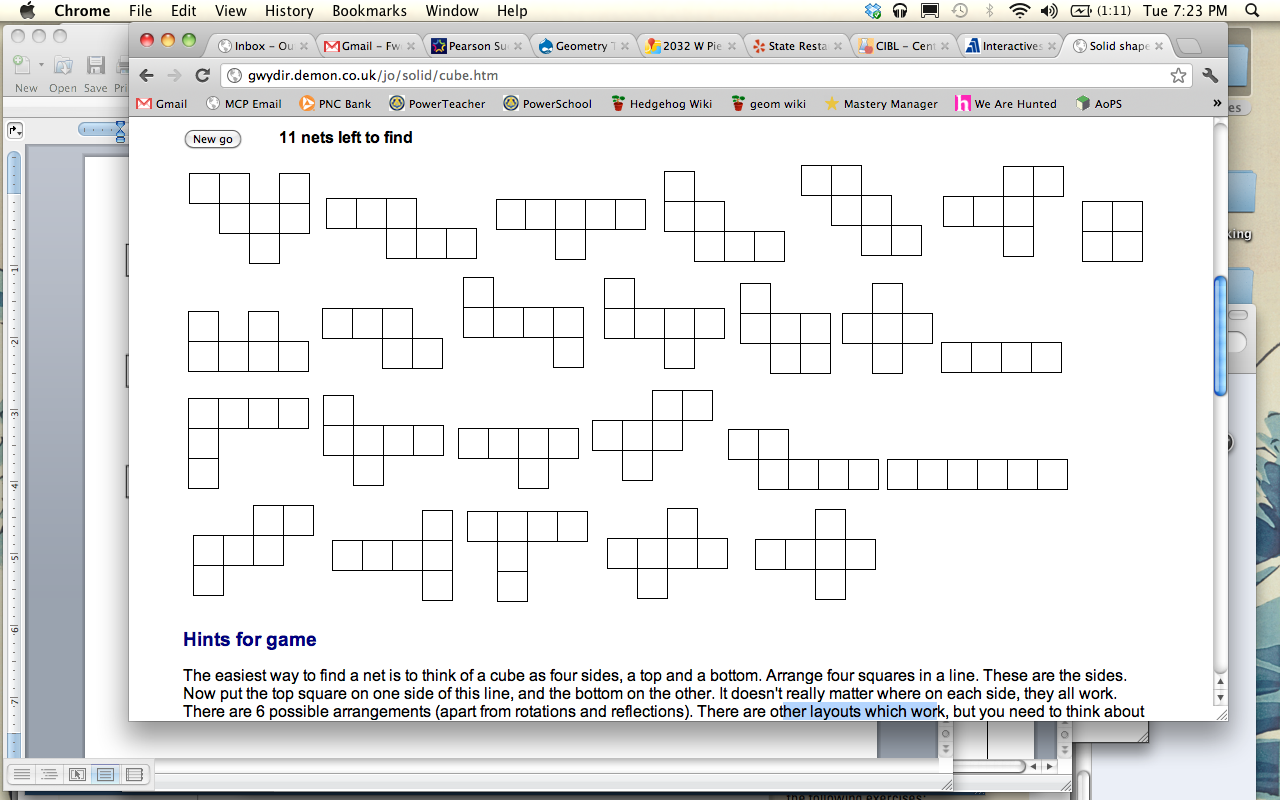
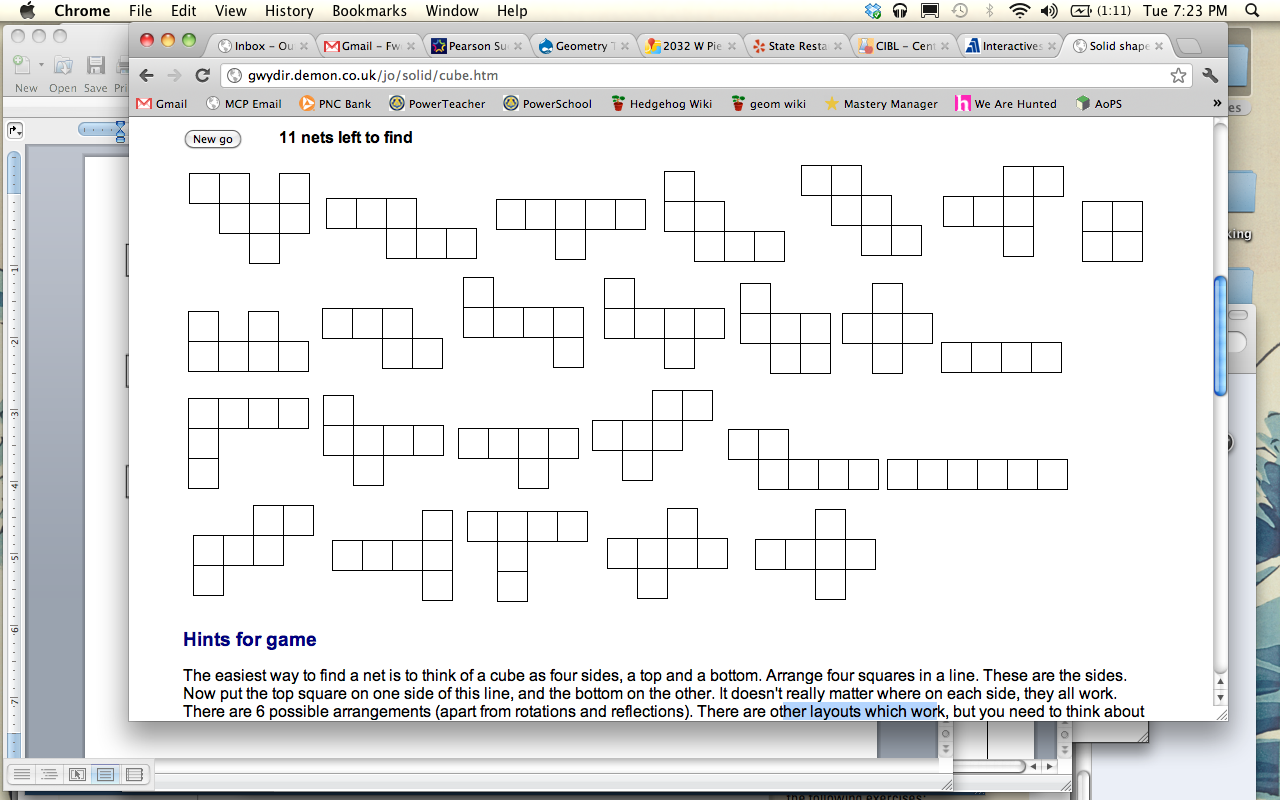
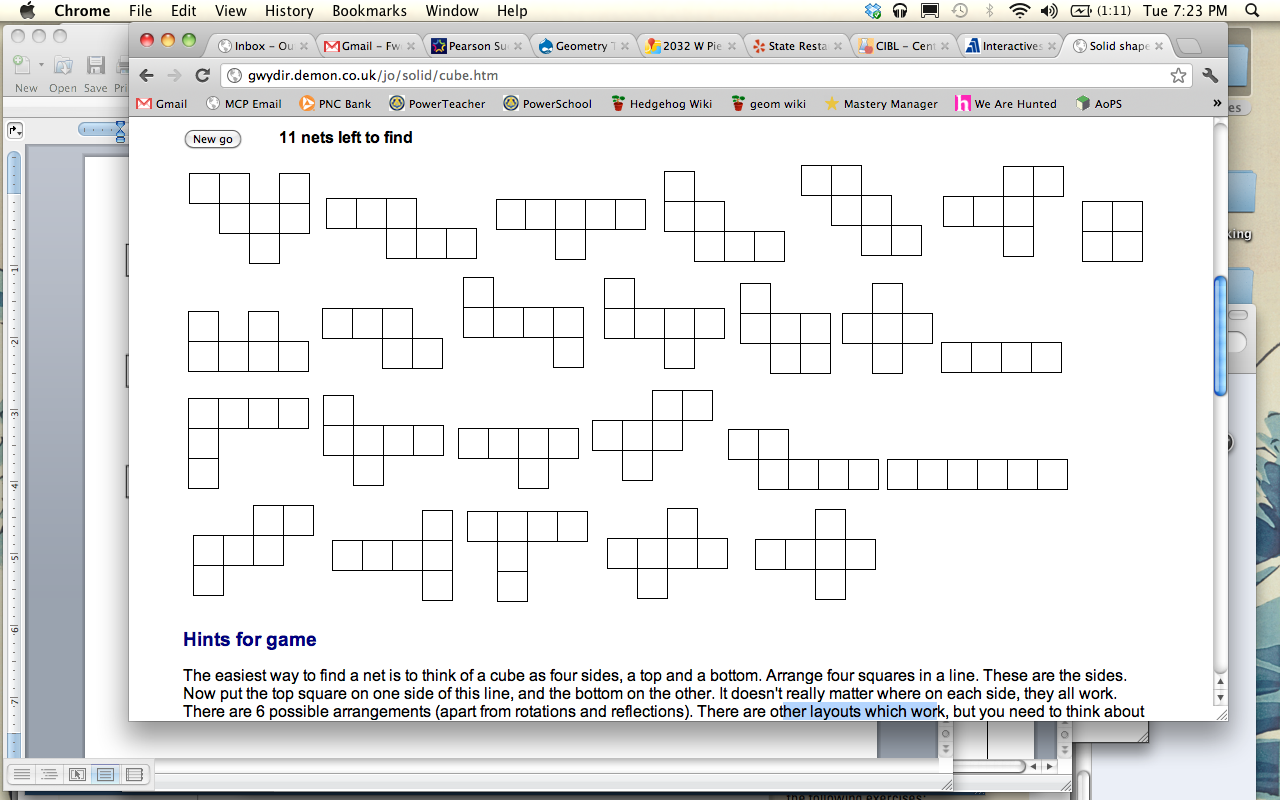
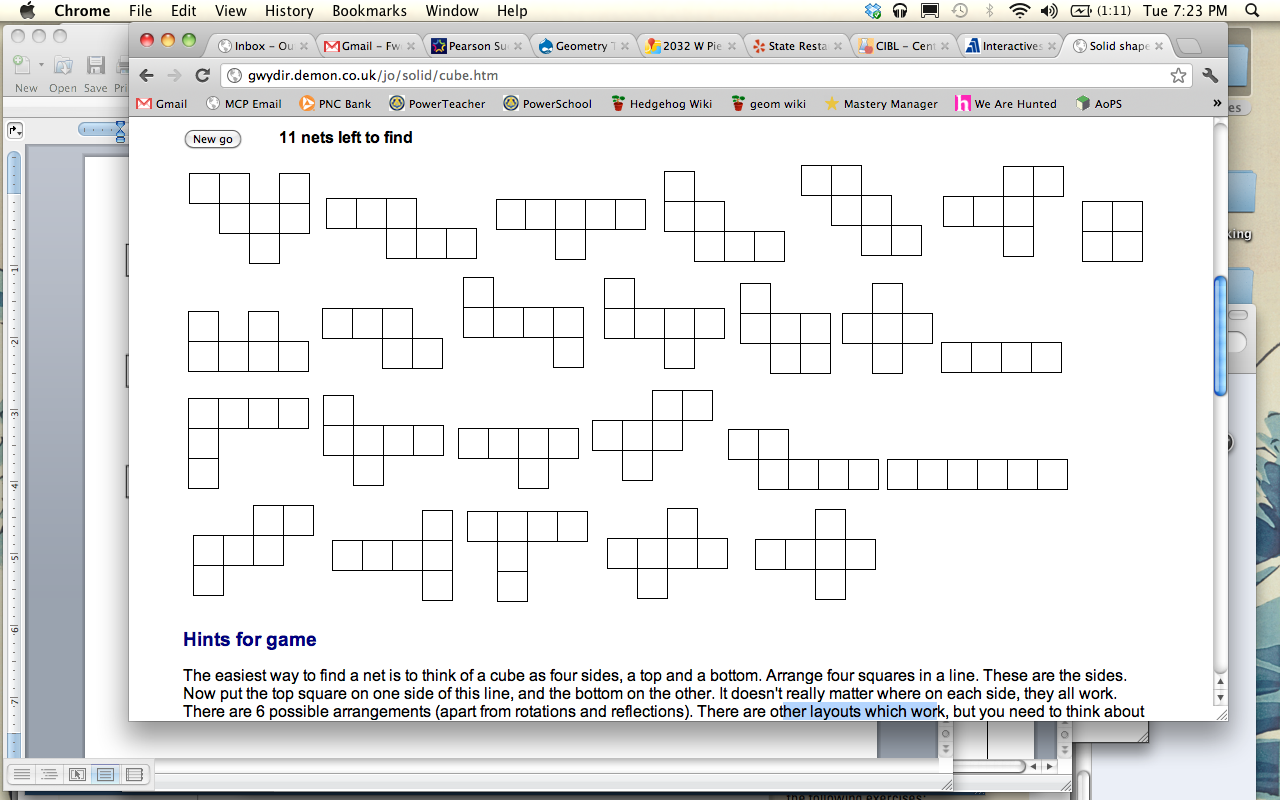
**Name:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_ ***GEOMETRY PRACTICE – PRISMS & CYLINDERS***

**Practice Problems:** (Round all answers to 2 decimal places – do not round until the final answer.)

|  |  |  |
| --- | --- | --- |
| 1. What 3D shape is formed by the net? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   Find the surface area. | 1. What solid (3D shape) is formed by the net? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   Find the surface area. | 1. Find the surface area of the right prism. |
| 1. A square has a side of 4” (in). If two identical squares were connected 4” apart, what shape would be formed? \_\_\_\_\_\_\_\_\_\_\_\_\_\_ What is its surface area? | 1. A square has an area of 16’ (ft). What is its side length? \_\_\_\_\_\_\_   If two identical squares were connected 5’ apart, what shape would be formed?\_\_\_\_\_\_\_\_\_\_\_\_  Find its surface area. | 1. A circle has an area of 9π cm. What is its radius?\_\_\_\_\_\_\_   If two of these circles connect 4 cm apart, what shape would be formed?\_\_\_\_\_\_\_\_\_\_\_\_\_  Find its surface area. |
| 1. Find the surface area of the right cylinder using the given radius *r* and height *h*.   *r* = 5 cm; *h* = 15 cm | 1. Find the surface area of the right cylinder using the given radius *r* and height *h*.   *r* = 12 in.; *h* = 18 in. | 1. Find length *x* given the surface area *S*of the rectangular prism.   *S = 320m2*   ***x*** |
| 1. Solve for *x* given the surface area *S* of the right prism or right cylinder. *S* = 1000 cm2 | 1. As a birthday present for a friend, you buy a cylindrical box of candy. The diameter of the box is 6 inches and the height is 8 inches. What is the minimum amount of wrapping paper needed to wrap the gift? | 1. CHALLENGE: Find the radius of a right cylinder with a surface area of 48π square feet. The height of the cylinder is 5 feet. |

**Exploration: Nets!**



**D**

**C**

**B**

**A**